

FIG. 1

FIG. 2a

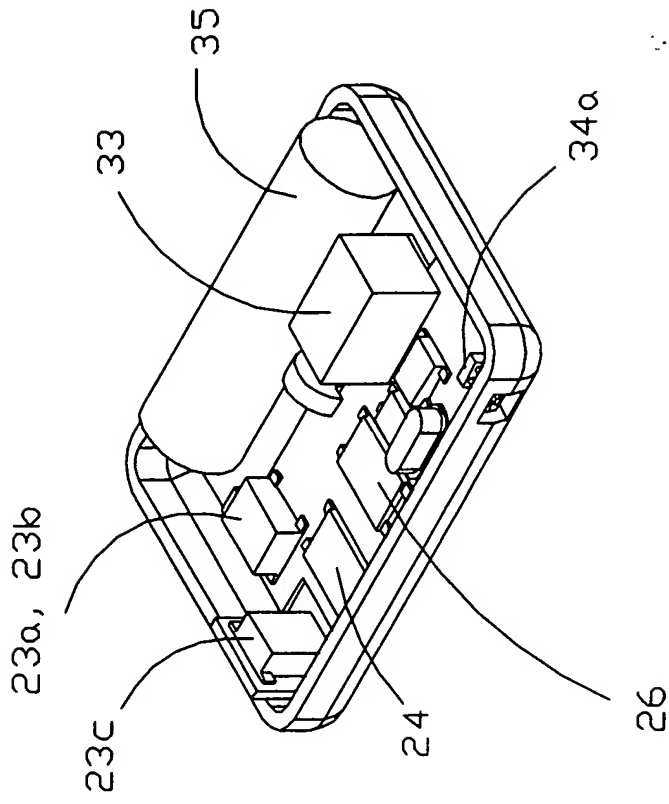


FIG. 2a

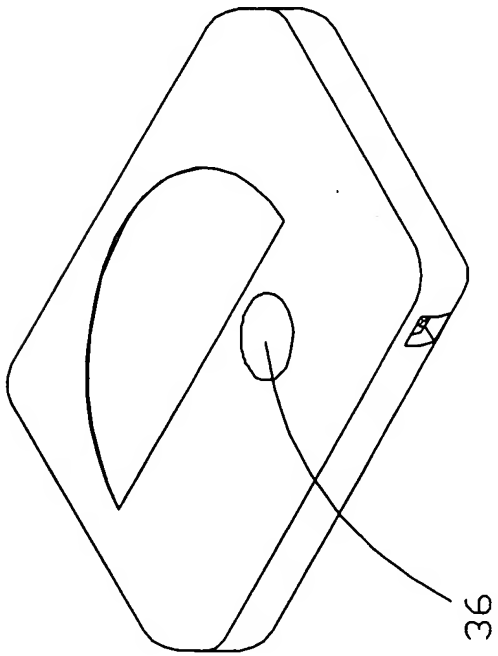


FIG. 2b

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2-10

115-002-0001

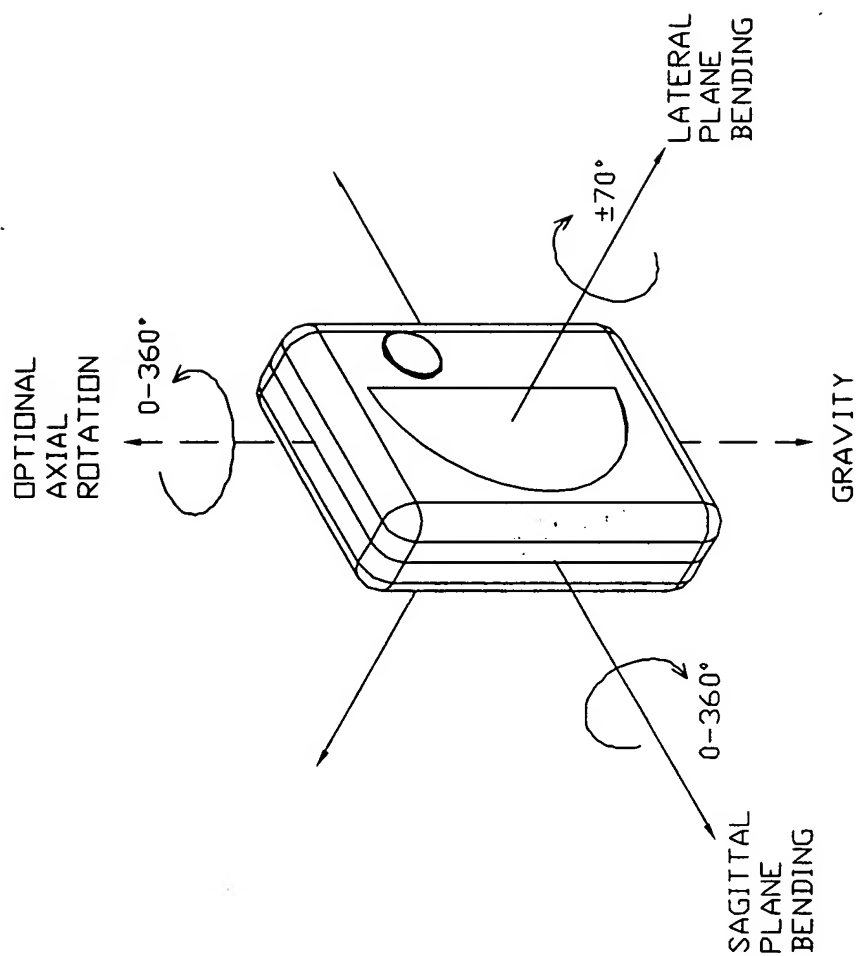


FIG. 3

$$\begin{aligned} a_x &= (a_{x_{raw}} - a_{x_{offset}}) * a_{x_{gain}} & 41 \\ a_y &= (a_{y_{raw}} - a_{y_{offset}}) * a_{y_{gain}} & 42 \\ a_z &= (a_{z_{raw}} - a_{z_{offset}}) * a_{z_{gain}} & 43 \\ \theta_y &= \arctan \frac{a_x}{a_z} & 44 \\ \theta_x &= \arctan \frac{a_y}{\sqrt{a_x^2 + a_z^2}} & 45 \end{aligned}$$

FIG. 4a

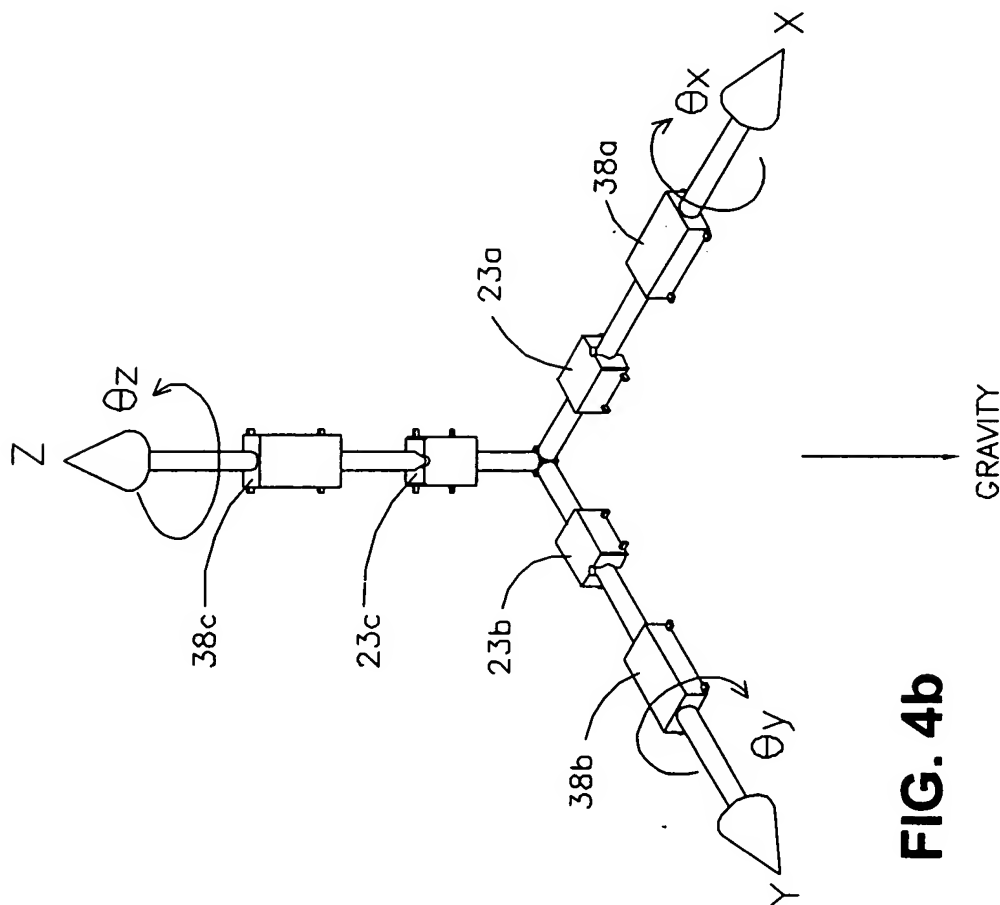


FIG. 4b

$$\begin{aligned} m_x &= (m_{x_{raw}} - m_{x_{offset}}) * m_{x_{gain}} & 71 \\ m_y &= (m_{y_{raw}} - m_{y_{offset}}) * m_{y_{gain}} & 72 \\ m_z &= (m_{z_{raw}} - m_{z_{offset}}) * m_{z_{gain}} & 73 \\ m'_y &= m_y * \cos \theta_x + m_z * \sin \theta_x & 74 \\ m'_z &= m_x * \cos \theta_x + m'_y * \sin \theta_x & 75 \\ m'_x &= m_x * \cos \theta_y + m'_z * \sin \theta_y & 76 \\ \theta_z &= \arctan(m'_x / m'_y) & 77 \end{aligned}$$

FIG. 4c

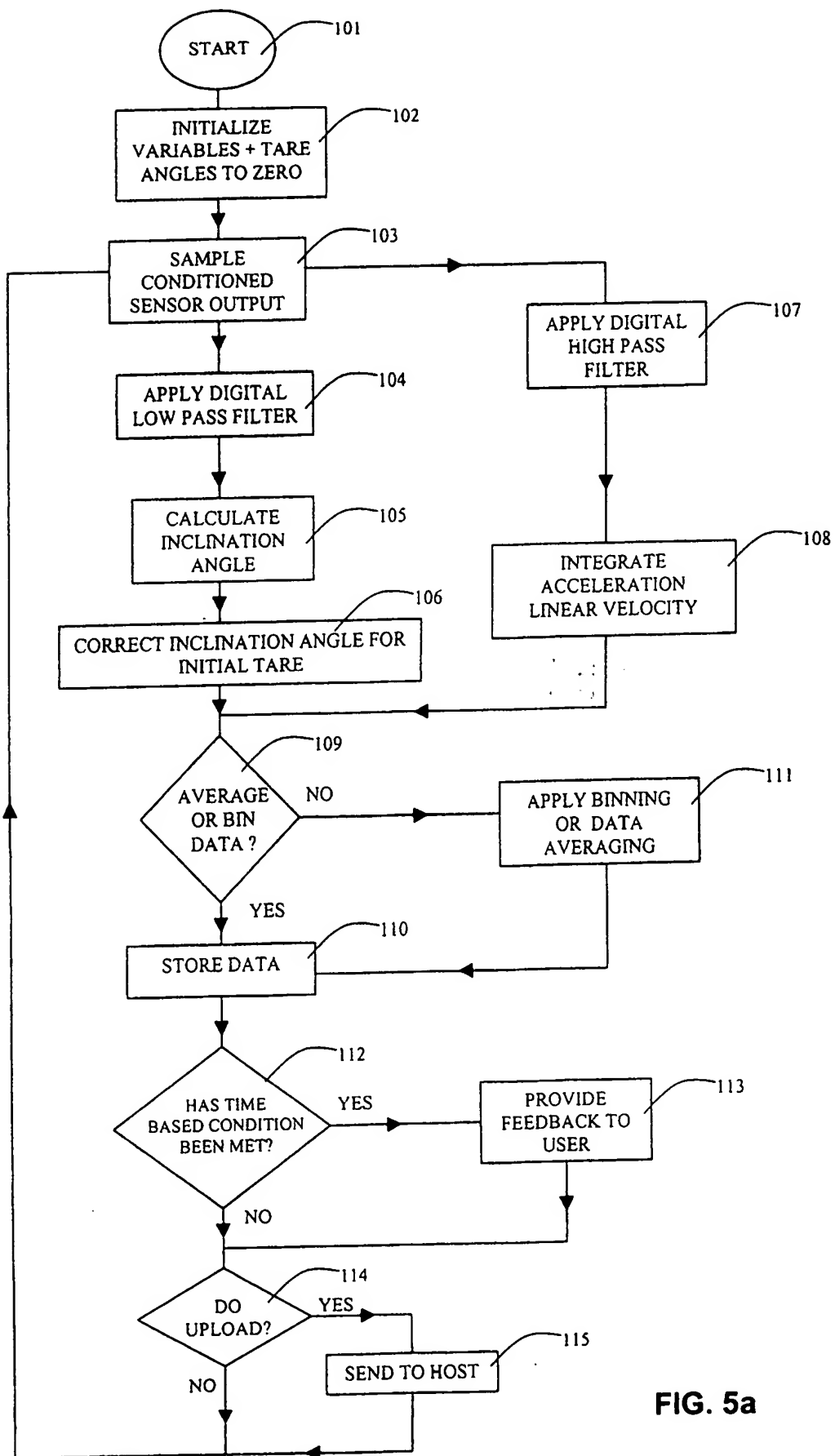


FIG. 5a

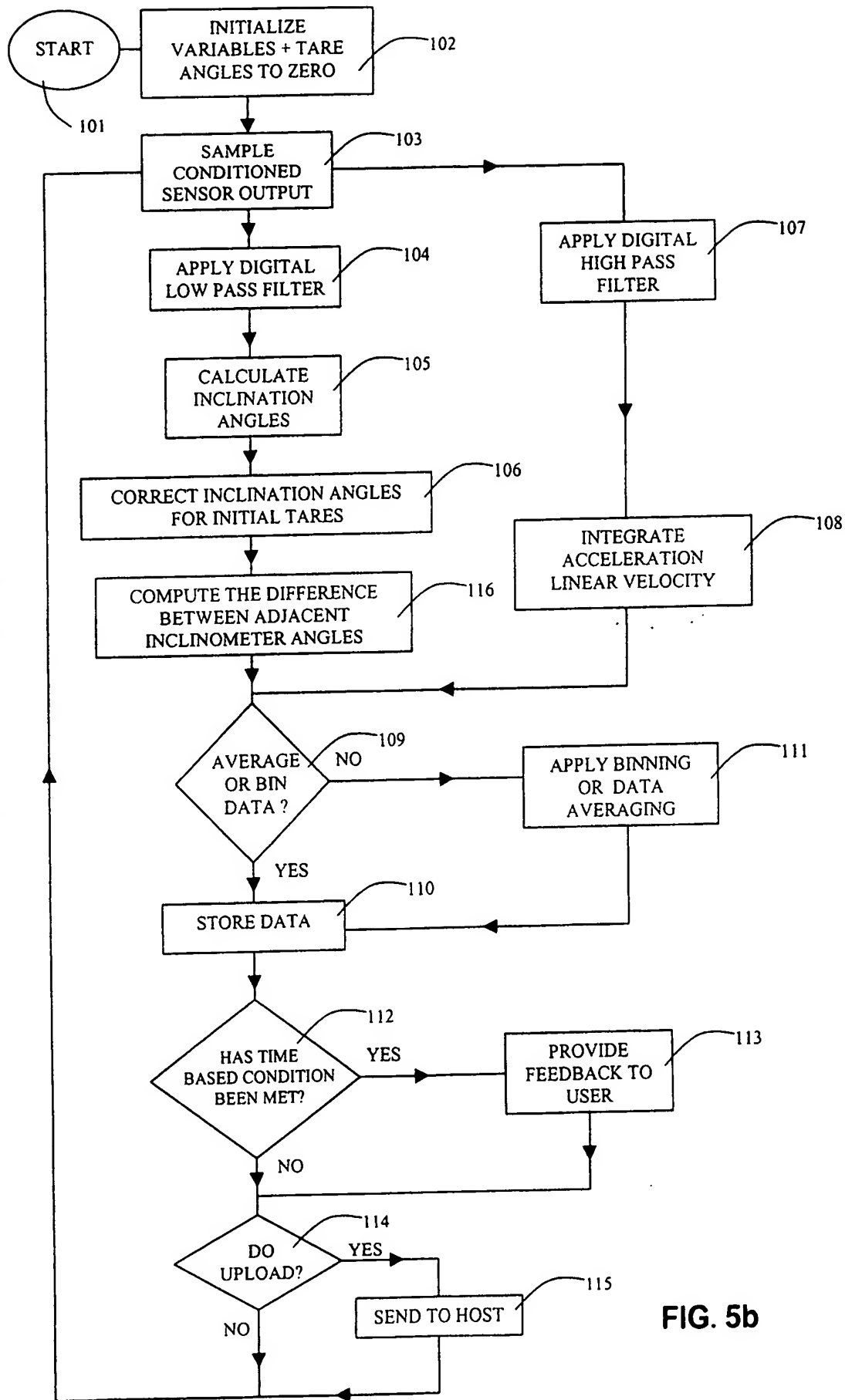


FIG. 5b

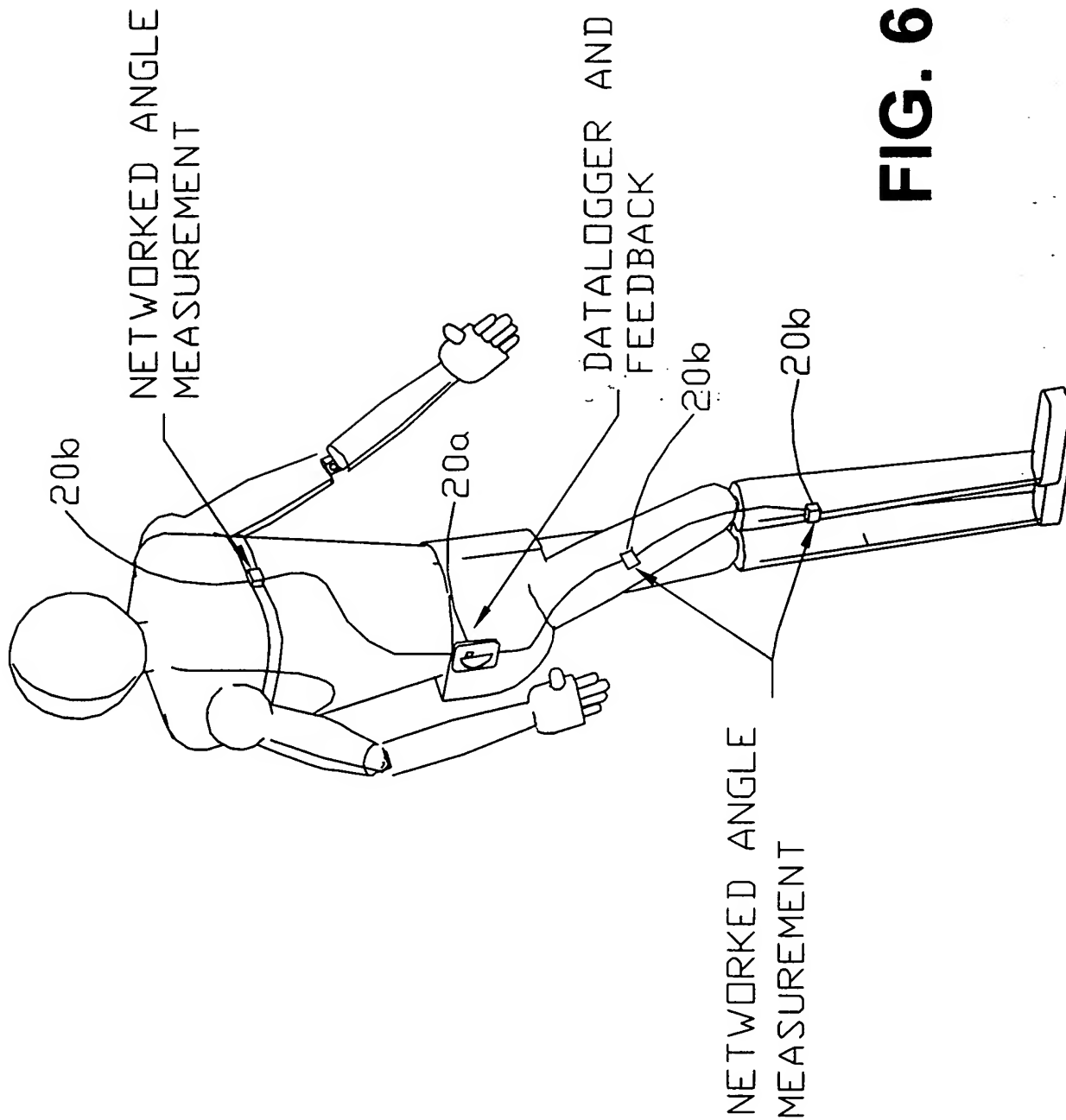


FIG. 6

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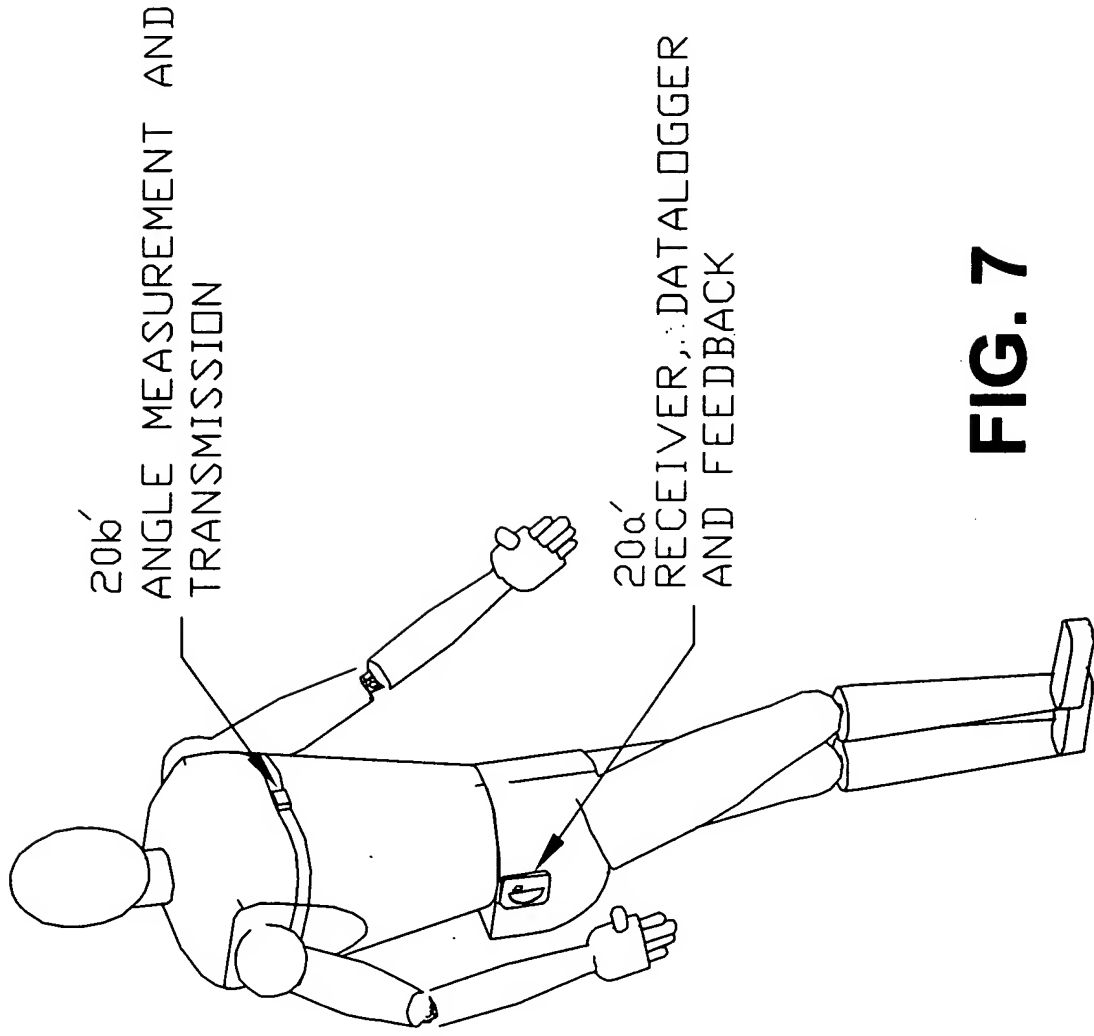
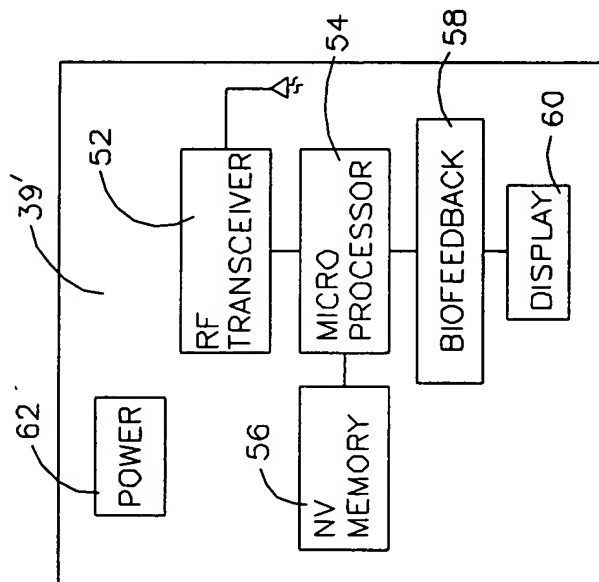
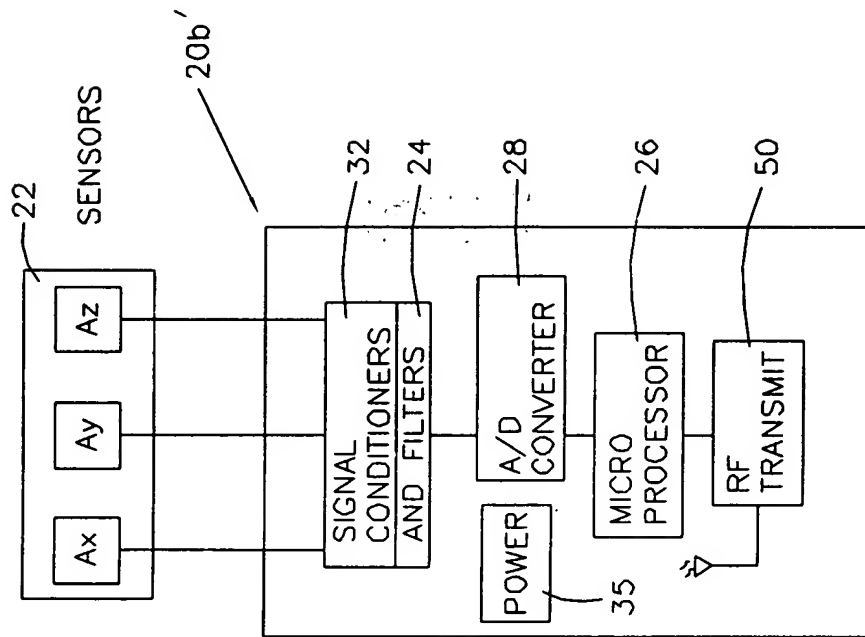
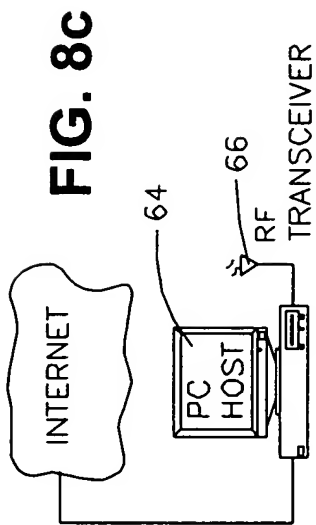


FIG. 7



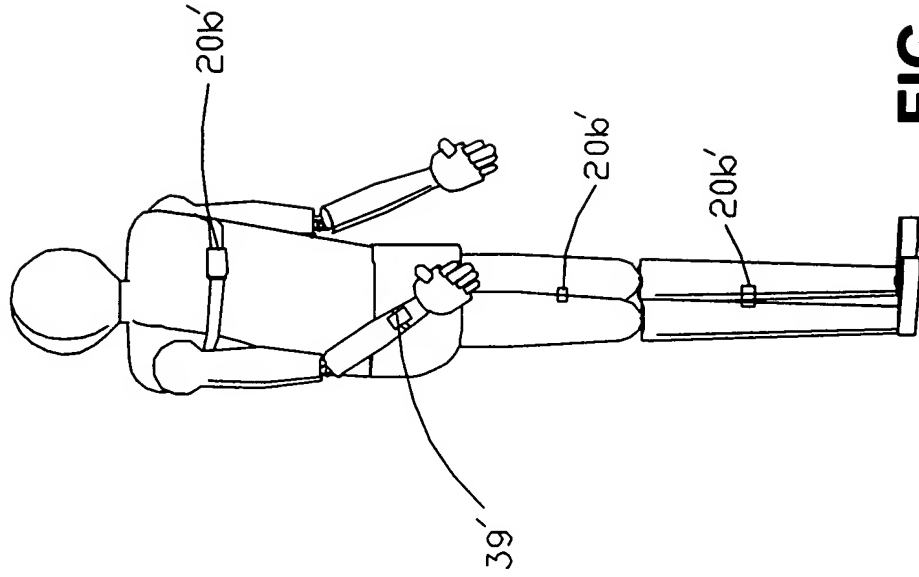


FIG. 9

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